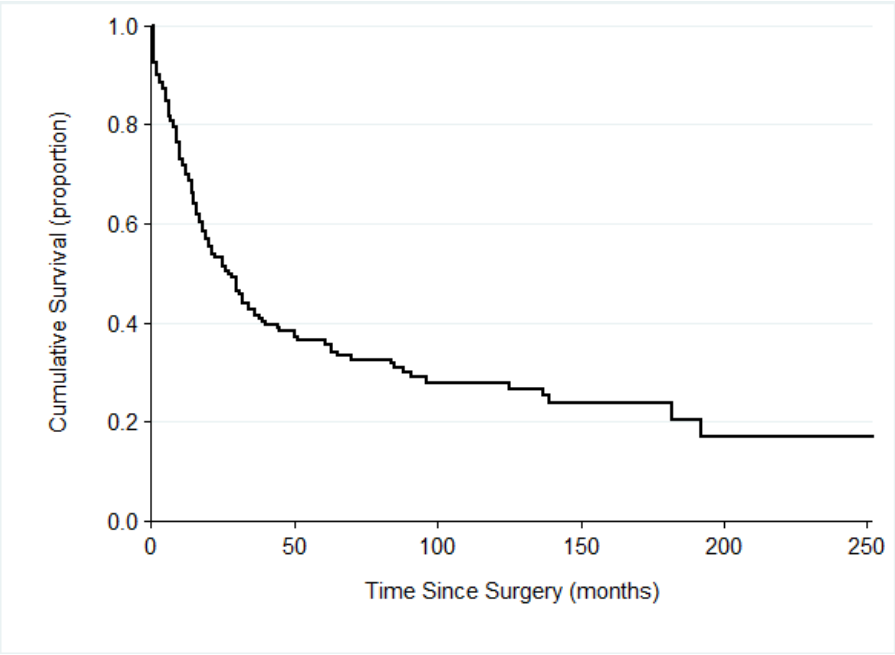
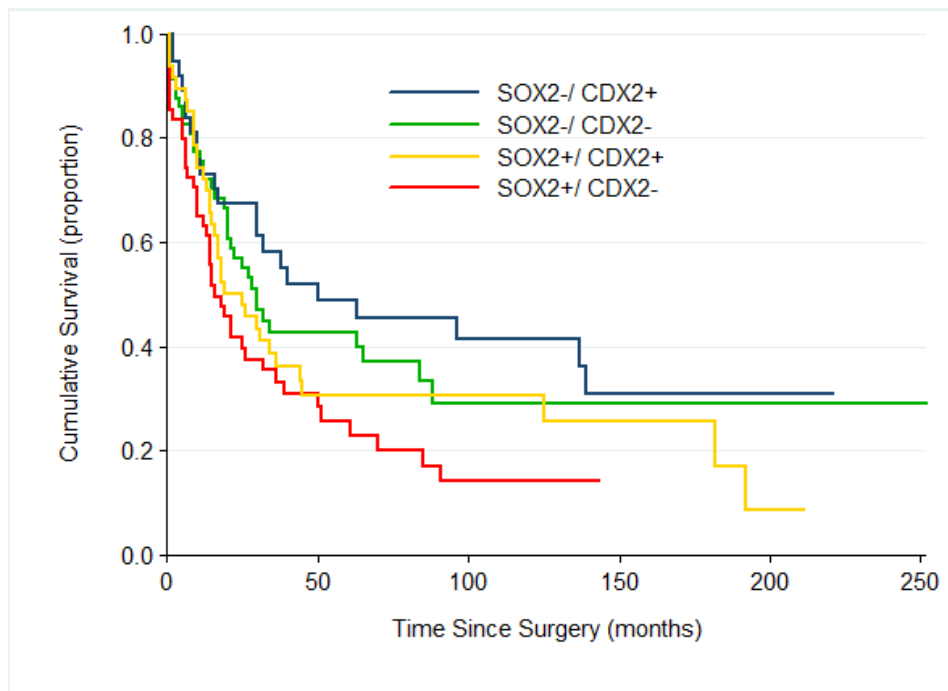


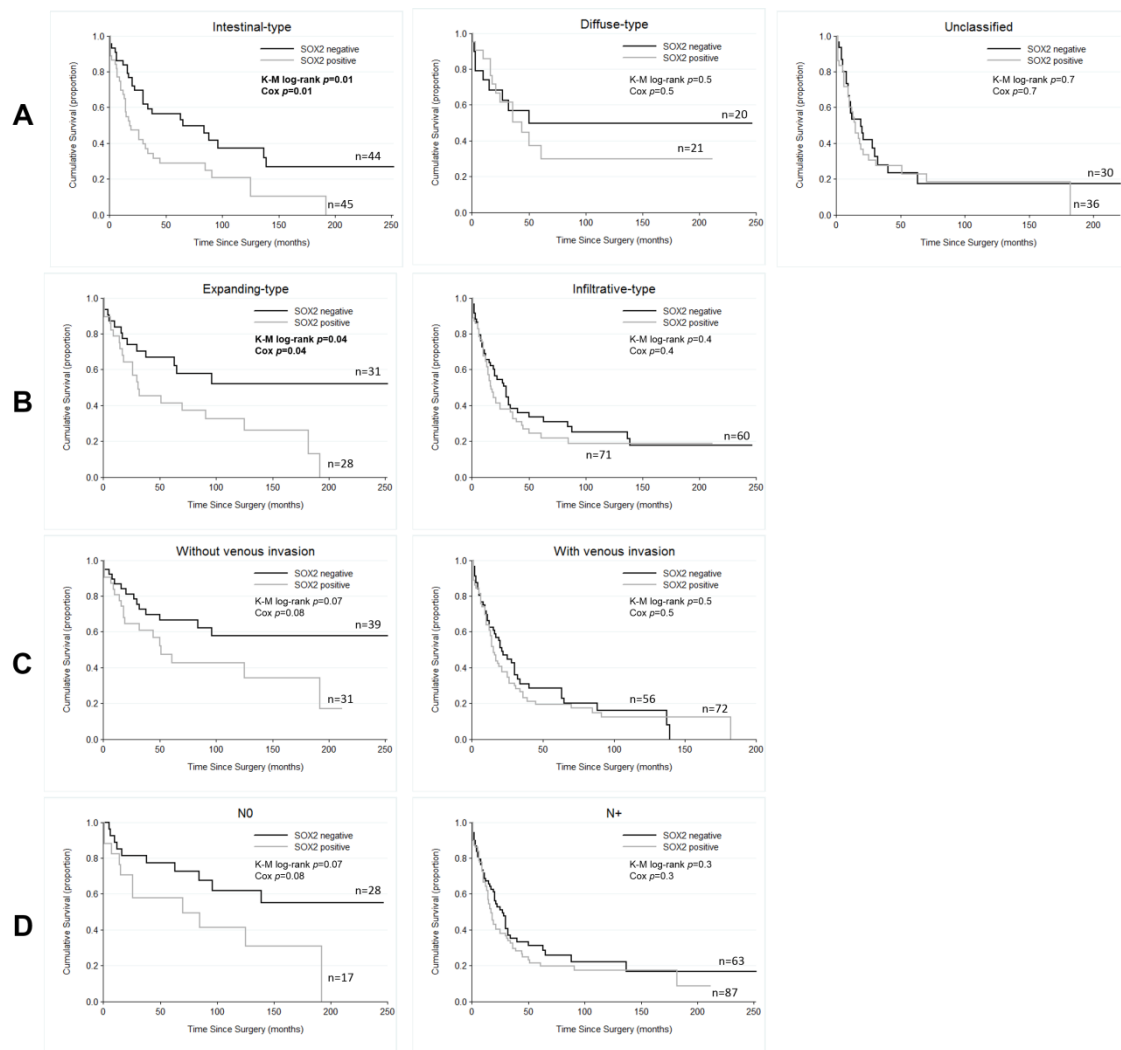
**Supplementary data**



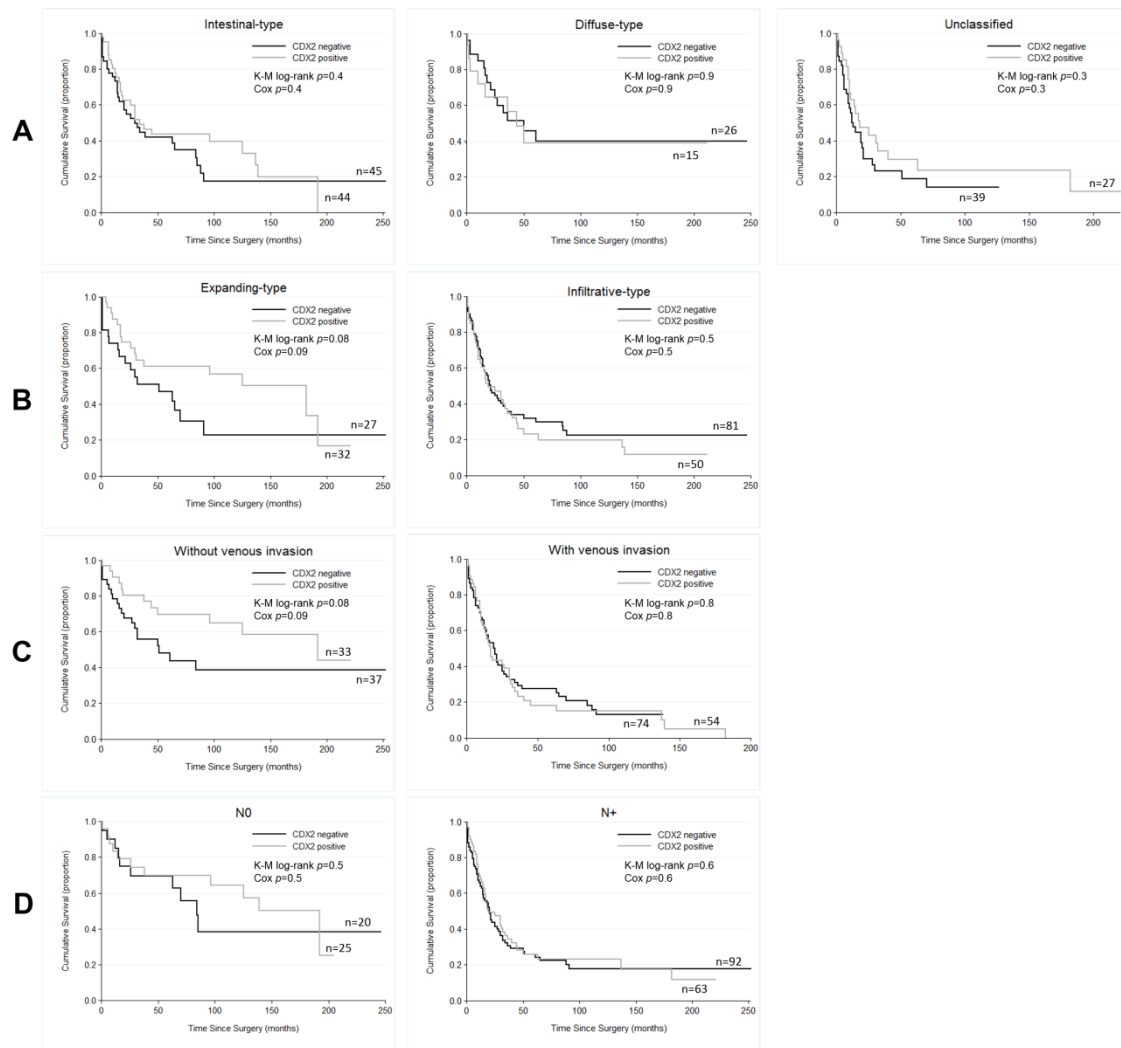
**Supplementary Figure 1** - Kaplan-Meier curve showing the probability of overall survival for patients with gastric cancer.



**Supplementary Figure 2** - Kaplan-Meier curves showing the probability of overall survival for patients with gastric cancer according to SOX2 and CDX2 combined expression profiles.



**Supplementary Figure 3** - Kaplan-Meier curves showing the probability of overall survival for patients with gastric cancer, according to SOX2 expression, and stratified according to clinicopathological parameters: Laurén classification (A), Ming classification (B), venous invasion (C) and lymph node metastases (D).



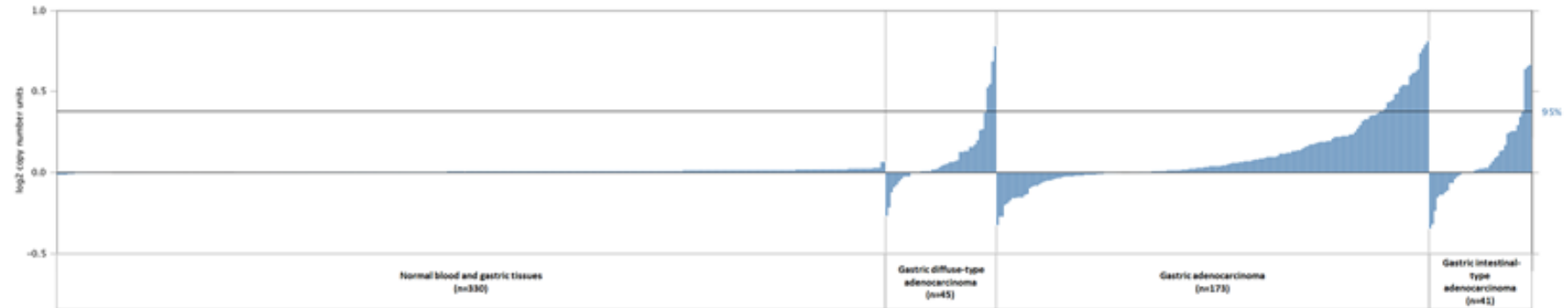
**Supplementary Figure 4 - Kaplan-Meier curves showing the probability of overall survival for patients with gastric cancer, according to CDX2 expression, and stratified according to clinicopathological parameters: Laurén classification (A), Ming classification (B), venous invasion (C) and lymph node metastases (D).**

Supplementary Table 1. Cox Proportional Hazards Models of survival as a function the SOX2 and CDX2 (positive vs. negative) for each clinicopathological parameter.

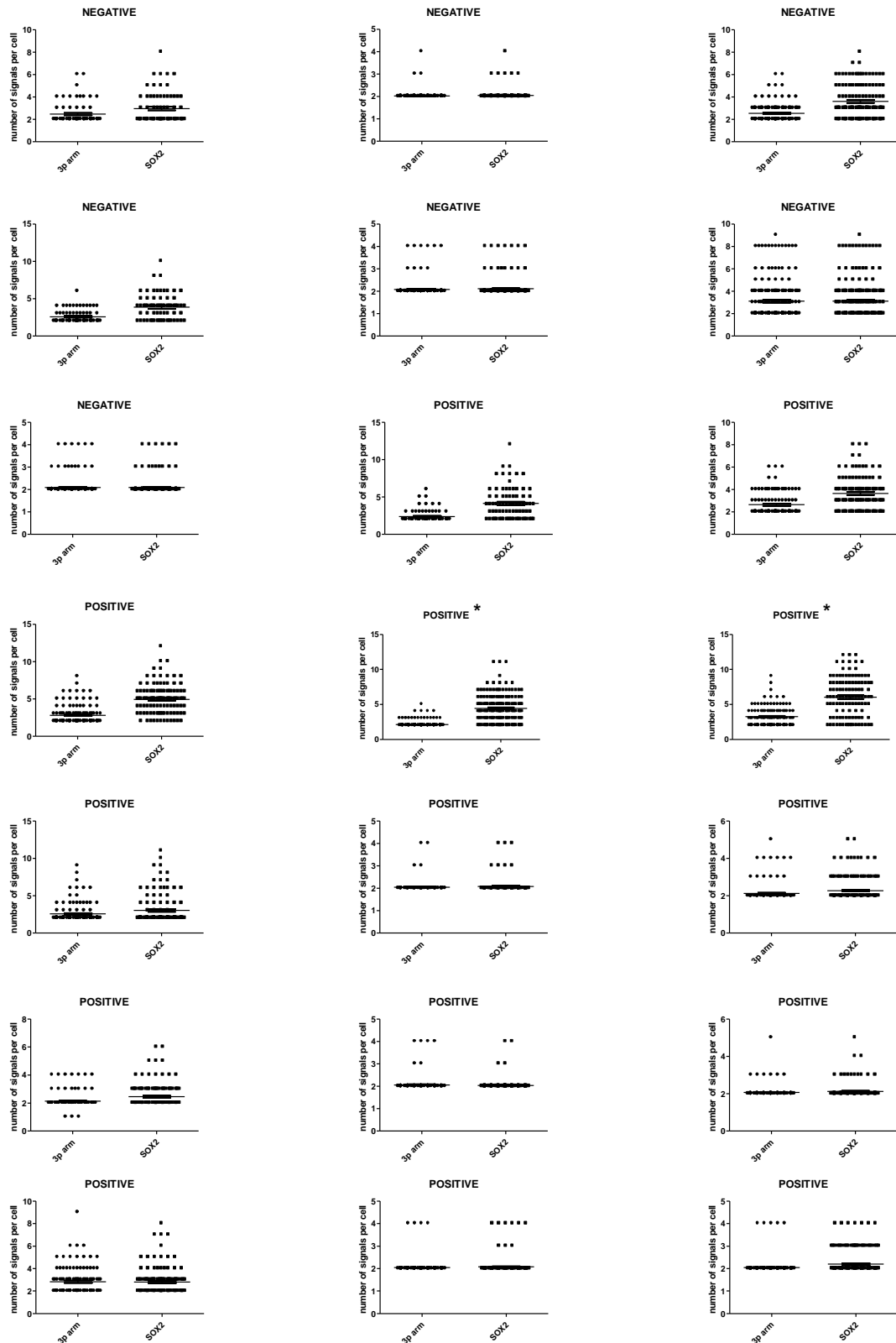
	SOX2		CDX2	
	HR (95% CI)	<i>P</i>	HR (95% CI)	<i>P</i>
Overall	1.51 (1.07-2.13)	0.02	0.82 (0.58-1.16)	0.3
Laurén classification				
Intestinal-type	1.94 (1.15-3.30)	0.01	0.79 (0.47-1.33)	0.4
Diffuse-type	1.31 (0.56-3.09)	0.5	1.07 (0.45-2.56)	0.9
Unclassified	1.19 (0.64-1.96)	0.7	0.72 (0.40-1.28)	0.3
Ming classification				
Expanding	2.05 (1.03-4.11)	0.04	0.55 (0.28-1.09)	0.09
Infiltrative	1.22 (0.80-1.84)	0.4	1.14 (0.75-1.73)	0.5
Vascular invasion				
Negative	1.89 (0.94-3.80)	0.08	0.54 (0.26-1.10)	0.09
Positive	1.16 (0.78-1.73)	0.5	1.05 (0.71-1.58)	0.8
N stage				
N0	2.15 (0.91-5.08)	0.08	0.76 (0.32-1.80)	0.5
N+	1.23 (0.85-1.79)	0.3	0.92 (0.63-1.34)	0.6

Abbreviations: HR, hazard ratio; CI, confidence interval

**SOX2 copy number in TCGA Gastric dataset**



**Supplementary Figure 5** – ONCOMINE gene microarray database was explored for SOX2 gene amplification and the results of The Cancer Genome Atlas (TCGA) for gastric cancers are displayed. This yielded a Cancer Outlier Profile Analysis (COPA) score at 32.595, ranking SOX2 in the top 10% copy number gain gene rank at 95th percentile among 18,823 measured genes.



**Supplementary Figure 6** – Scatter plot showing the number of signals per cell for both SOX2 locus and the 3p arm, assessed by FISH. SOX2 IHC data is displayed on top.

\* Case with amplification.